

# Safety Data Sheet



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## SECTION 1: Identification

### 1.1 GHS Product identifier

Product name	ELMNT .SL
Product number	ELMNT .SL
Brand	ELMNT

### 1.3 Recommended use of the chemical and restrictions on use

Highly strainable ink for screen printing. Low viscosity formulation recommended for high mesh-count screens.

### 1.4 Supplier's details

Name	UES, Inc.
Address	4401 Dayton Xenia Rd Dayton OH 45432 United States of America
Telephone	<a href="http://www.ues.com/elmnt">www.ues.com/elmnt</a> (937) 426-6900

### 1.5 Emergency phone number

(847) 367-7700  
(800) 424-9300 - CHEMTREC (USA)  
(703) 527-3887 - CHEMTREC (International)  
24 Hours/day; 7 Days/week

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## SECTION 2: Hazard identification

### 2.1 Classification of the substance or mixture

**GHS classification in accordance with: OSHA (29 CFR 1910.1200)**

- Skin corrosion/irritation, Cat. 2

### 2.2 GHS label elements, including precautionary statements

Pictogram



Signal word

Warning

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### Hazard statement(s)

H315 Causes skin irritation

### Precautionary statement(s)

P264 Wash hands thoroughly after handling.  
P280 Wear protective gloves.  
P302+P352 IF ON SKIN: Wash with plenty of water/soap  
P332+P313 If skin irritation occurs: Get medical advice/attention.  
P362+P364 Take off contaminated clothing and wash it before reuse.

## SECTION 3: Composition/information on ingredients

### 3.2 Mixtures

#### Hazardous components

Component	Concentration
<b>GALLIUM (CAS no.: 7440-55-3)</b> CLASSIFICATIONS: No data available. HAZARDS: No data available.	<b>64 - 65 % (weight)</b>
<b>Indium (CAS no.: 7440-74-6; EC no.: 231-180-0)</b> CLASSIFICATIONS: Hazardous to the aquatic environment, long-term (chronic), Cat. 2; Skin corrosion/irritation, Cat. 2; Eye damage/irritation, Cat. 2A; Acute toxicity, dermal, Cat. 4; Acute toxicity, inhalation, Cat. 4; Acute toxicity, oral, Cat. 4. HAZARDS: H302 - Harmful if swallowed; H312 - Harmful in contact with skin; H315 - Causes skin irritation; H319 - Causes serious eye irritation; H332 - Harmful if inhaled; H411 - Toxic to aquatic life with long lasting effects.	<b>21 - 22 % (weight)</b>
<b>Rheological Modifier, proprietary*</b> CLASSIFICATIONS: No data available. HAZARDS: No data available.	<b>0.1 - 0.2 % (weight)</b>
<b>Tackifier, proprietary*</b> CLASSIFICATIONS: No data available. HAZARDS: No data available.	<b>0.7 - 0.8 % (weight)</b>
<b>1,6-Hexanediol, 1,6-diacetate (CAS no.: 6222-17-9)</b> CLASSIFICATIONS: No data available. HAZARDS: No data available.	<b>12.5 - 13.5 % (weight)</b>

#### Trade secret statement (OSHA 1910.1200(i))

\*The specific chemical identities and/or actual concentrations or actual concentration ranges for one or more listed components are being withheld as trade secrets under the US regulation 29 CFR 1910.1200(i).

## SECTION 4: First-aid measures

### 4.1 Description of necessary first-aid measures

General advice Consult a physician. Show this safety data sheet to the doctor in attendance.

If inhaled If breathed in, move person into fresh air. If not breathing, give oxygen.

In case of skin contact Wash off with soap and plenty of water. Get medical attention if symptoms occur.

In case of eye contact Rinse thoroughly with plenty of water for at least 15 minutes. Get medical attention if symptoms occur.

If swallowed Never give anything by mouth to an unconscious person. Consult a physician.

### 4.2 Most important symptoms/effects, acute and delayed

The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

### 4.3 Indication of immediate medical attention and special treatment needed, if necessary

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No data available

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### SECTION 5: Fire-fighting measures

#### 5.1 Suitable extinguishing media

Use water spray, alcohol-resistant foam, dry chemical, carbon dioxide, or sand.

#### 5.2 Specific hazards arising from the chemical

Indium : Indium/indium oxides

#### 5.3 Special protective actions for fire-fighters

Wear self-contained breathing apparatus for firefighting if necessary.

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### SECTION 6: Accidental release measures

#### 6.1 Personal precautions, protective equipment and emergency procedures

Keep people away from and upwind of spill/leak. Use personal protective equipment.

#### 6.2 Environmental precautions

Prevent further leakage or spillage if safe to do so. Do not flush into surface water or sanitary sewer system.

#### 6.3 Methods and materials for containment and cleaning up

Sweep up or vacuum up spillage and collect in suitable container for disposal. Avoid dust formation. Keep in suitable, closed containers for disposal. Clean contaminated surfaces thoroughly with soap and water.

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### SECTION 7: Handling and storage

#### 7.1 Precautions for safe handling

Avoid contact with skin and eyes. Avoid inhalation of vapour or mist. For precautions see section 2.2.

#### 7.2 Conditions for safe storage, including any incompatibilities

Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

Recommended storage temperature: 20-30 C

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### SECTION 8: Exposure controls/personal protection

#### 8.1 Control parameters

##### 1. Indium (CAS: 7440-74-6 EC: 231-180-0)

TLV® (Inhalation): 0.1 mg/m<sup>3</sup> (ACGIH)

Pulmonary edema, Pneumonitis, Dental erosion, Malaise

REL-TWA (Inhalation): 0.1 mg/m<sup>3</sup> (NIOSH)

PEL-TWA (Inhalation): 0.1 mg/m<sup>3</sup> (Cal/OSHA)

#### 8.2 Appropriate engineering controls

General industrial hygiene practice.

#### 8.3 Individual protection measures, such as personal protective equipment (PPE)

##### Eye/face protection

Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

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### Skin protection

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

### Respiratory protection

Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multipurpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

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## SECTION 9: Physical and chemical properties and safety characteristics

### Basic physical and chemical properties

Physical state	Liquid
Appearance	silver, gray gel/paste
Color	silver/gray
Odor	slightly sweet
Odor threshold	No data available
Melting point/freezing point	No data available
Boiling point or initial boiling point and boiling range	No data available
Flammability	No data available
Lower and upper explosion limit/flammability limit	No data available
Flash point	122 C
Auto-ignition temperature	No data available
Decomposition temperature	No data available
pH	N/A
Kinematic viscosity	No data available
Solubility	No data available
Partition coefficient n-octanol/water (log value)	No data available
Vapor pressure	No data available
Evaporation rate	No data available
Density and/or relative density	No data available
Relative vapor density	1.6-7.81

### Particle characteristics

No data available

### Supplemental information regarding physical hazard classes

No data available

### Further safety characteristics (supplemental)

Corrosive to some metals (aluminum, noble metals, etc.)

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## SECTION 10: Stability and reactivity

### 10.1 Reactivity

None under normal use conditions. Corrosive towards certain metals and alloys.

### 10.2 Chemical stability

Stable under recommended storage conditions.

### 10.3 Possibility of hazardous reactions

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Vapours may form explosive mixture with air.

### 10.4 Conditions to avoid

Heat, flames and sparks. Keep out of direct sunlight.

### 10.5 Incompatible materials

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Indium : Strong oxidizing agents, Sulphur compounds, Strong acids, Halogens, Acetonitrile, Tellurium, arsenic powder, phosphorous

Gallium: Aluminum, some metals and alloys.

### 10.6 Hazardous decomposition products

Hazardous decomposition products formed under fire conditions. - Carbon oxides

Other decomposition products - No data available

In the event of fire: see section 5

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## SECTION 11: Toxicological information

### Information on toxicological effects

#### Acute toxicity

The ATE (gas inhalation) of the mixture is: 56250 ppmV

// ----- From the Suggestion report (11/18/2021, 4:04 PM) ----- //

The ATE (dermal) of the mixture is: 5000 mg/kg bw

// ----- From the Suggestion report (11/18/2021, 4:04 PM) ----- //

The ATE (gas inhalation) of the mixture is: 20454.55 ppmV

// ----- From the Suggestion report (11/18/2021, 4:04 PM) ----- //

The ATE (oral) of the mixture is: 2272.73 mg/kg bw

// ----- From the Suggestion report (11/18/2021, 4:05 PM) ----- //

The ATE (dermal) of the mixture is: 5000 mg/kg bw

// ----- From the Suggestion report (11/18/2021, 4:05 PM) ----- //

The ATE (gas inhalation) of the mixture is: 20454.55 ppmV

// ----- From the Suggestion report (11/18/2021, 4:05 PM) ----- //

The ATE (oral) of the mixture is: 2272.73 mg/kg bw

#### Skin corrosion/irritation

Indium:

Skin - EPISKIN Human Skin Model Test

Result: Based on available data the classification criteria are not met. (OECD Test Guideline 439)

#### Serious eye damage/irritation

Indium:

Eyes - In vitro study

Result: Based on available data the classification criteria are not met. (OECD Test Guideline 438)

#### Germ cell mutagenicity

No data available

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### **Carcinogenicity**

IARC: No ingredient of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

NTP: No ingredient of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

OSHA: No component of this product present at levels greater than or equal to 0.1% is on OSHA's list of regulated carcinogens.

### **Reproductive toxicity**

No data available

### **STOT-single exposure**

No data available

### **STOT-repeated exposure**

No data available

### **Aspiration hazard**

No data available

### **Additional information**

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

Hazardous properties cannot be excluded but are unlikely when the product is handled appropriately. Handle in accordance with good industrial hygiene and safety practice.

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## **SECTION 12: Ecological information**

### **Toxicity**

No data available

### **Persistence and degradability**

No data available on product

### **Bioaccumulative potential**

No data available on product

### **Mobility in soil**

No data available

### **Results of PBT and vPvB assessment**

PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

### **Other adverse effects**

An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.

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## **SECTION 13: Disposal considerations**

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### Disposal methods

#### Product disposal

Dispose of contents/container in accordance with local, state and federal regulations. Leave chemicals in original containers. No mixing with other waste. Handle uncleaned containers like the product itself.

#### Packaging disposal

Dispose of contaminated packaging as unused product.

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## SECTION 14: Transport information

### DOT (US)

UN Number: UN2803

Class: 8

Packing Group: III

Proper Shipping Name: Gallium

Reportable quantity (RQ):

Marine pollutant:

Poison inhalation hazard:

### IMDG

UN Number: UN2803

Class: 8

Packing Group: III

EMS Number:

Proper Shipping Name: Gallium

### IATA

UN Number: UN2803

Class: 8

Packing Group: III

Proper Shipping Name: Gallium

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## SECTION 15: Regulatory information

### 15.1 Safety, health and environmental regulations specific for the product in question

#### New Jersey Right To Know Components

Common name: GALLIUM

CAS number: 7440-55-3

#### Canadian Domestic Substances List (DSL)

Chemical name: Gallium

CAS: 7440-55-3

#### Pennsylvania Right To Know Components

Indium

CAS-No. 7440-74-6

#### New Jersey Right To Know Components

Indium

CAS-No. 7440-74-6

#### Canadian Domestic Substances List (DSL)

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Chemical name: Indium  
CAS: 7440-74-6

### Canadian Non-Domestic Substances List (NDSL)

Chemical name: 1,6-Hexanediol, diacetate  
CAS: 6222-17-9

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## SECTION 16: Other information

VERSION: 1.0 Revision Date 11/18/2021 Print Date 11/18/2021

### 16.1 Further information/disclaimer

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. UES Inc. and its Affiliates shall not be held liable for any damage resulting from handling or from contact with the above product. See the reverse side of invoice or packing slip for additional terms and conditions of sale.

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